SAVITRIBAI PHULE PUNE UNIVERSITY

(Formerly University of Pune)

EXAMINATION CIRCULAR NO.1 OF. 2020

BACHELOR OF ENGINEERING (2012 & 2015 COURSE)

Examination of APR/MAY-2020

(Under Faculty of SCIENCE AND TECHNOLOGY : B)ENGINEERING)

1. Common Instructions:

- The examination will be conducted in on-line as well as in off-line mode based on the option given by students. Time slot for both examinations i.e. (on-line and off-line examination) is same.
- All relevant communication related to on-line as well as off-line examinations will be done through the email on registered email address and through sms on registered mobile number. Both these communications details are collected by the examination section through the students' profile filled by these students at the time of filling the examination form. It is suggested not to change email address and mobile number till completion of October. 2020 examination.
- Hall tickets are sent to the concerned affiliated colleges Students can collect hall tickets from their respective colleges. To avoid inconvenience to students, examination section has provided a special facility to download hall tickets directly from student's login. Those students, who had opted for the off-line OMR based examination, shall carry hall tickets at the examination centre.
- For physically challenged students, for the on-line examination, time will automatically get set to 80 minutes. For the off-line examination, the examination centres are instructed to allot 20 minutes extra to these students. For both on-line and off-line examination permission is granted to take help of writer/assistant during the examination.

2. Instructions to candidates appearing for the on-line examinations:

- Candidates shall appear for the on-line examination from the place of their convenience.
- Candidate can login using their mobile, laptop, PC or I-Pad. Please take care that batteries of these units are properly charged prior to examination and also connected through internet facility.
- In case of any technical difficulty during the examination, software support is provided by the University. On-line examination will get resumed for the remaining duration in case of technical interruptions during the examinations. Answers of the questions attempted by student before the occurrence of the interruption will get saved automatically on University server. A mock test will be provided to all students. Time table of mock test/s will get communicated to students through Student's login.

CIVIL

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	Environmental Engineering - II (401001)	Environmental Engineering - II (401001)
Thursday 15/10/2020	Transportation Engineering (401002)	Transportation Engineering (401002)
Sunday 18/10/2020	* Structural Design & Drawing-III (401003)	* Structural Design & Drawing - III (401003)
Tuesday 20/10/2020	ELECTIVE-I Structural Design of Bridges (401004A)	ELECTIVE-I Structural Design Of Bridges (401004A)
	ELECTIVE-I Systems Approach in Civil Engineering (401004B)	ELECTIVE-I Systems Approach In Civil Engineering (401004B)
	ELECTIVE-I Advanced Concrete Technology (401004C)	ELECTIVE-I Advanced Concrete Technology (401004C)
	ELECTIVE-I Architecture and Town Planning (401004D)	ELECTIVE-I Architecture And Town Planning (401004D)
	ELECTIVE-I Advanced Engineering Geology with Rock Mechanics (401004E)	ELECTIVE-I Advanced Engineering Geology With Rock Mechanics (401004E)
Thursday 22/10/2020	ELECTIVE-II Matrix Methods of Structural Analysis (401005A)	ELECTIVE-II Matrix Methods Of Structural Analysis (401005A)
	ELECTIVE-II Integrated Water Resources Planning & Management (401005B)	ELECTIVE-II Integrated Water Resources And Planning (401005B)
	ELECTIVE-II TQM & MIS in Civil Engineering (401005C)	ELECTIVE-II TQM & MIS In Civil Engineering (401005C)
	ELECTIVE-II Earthquake Engineering (401005D)	ELECTIVE-II Earthquake Engineering (401005D)

Thursday 22/10/2020	**ELECTIVE-II** Advanced Geotechnical Engineering (401005E)	**ELECTIVE-II** Advanced Geotechnical Engineering (401005E)

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Dams and Hydraulic Structures (401007)	Dams And Hydraulic Structures (401007)
Thursday 15/10/2020	Quantity Surveying, Contracts and Tenders (401008)	Quantity Surveying contracts And Tenders (401008)
Sunday 18/10/2020	**ELECTIVE-III** Advanced Structural Design (401009A)	**ELECTIVE-III** Advanced Structural Design (401009A)
	ELECTIVE-III Statistical Analysis and Computational Methods in Civil Engineering (401009B)	**ELECTIVE-III** Advanced Foundation Engineering (401009B)
	ELECTIVE-III Hydropower Engineering (401009C)	**ELECTIVE-III** Hydropower Engineering (401009C)
	ELECTIVE-III Air Pollution and control (401009D)	**ELECTIVE-III** Air Pollution And Control (401009D)
	ELECTIVE-III Finite Element Method in Civil Engineering (401009E)	**ELECTIVE-III** Finite Element Method In Civil Engineering (401009E)
	ELECTIVE-III Airport and Bridge Engineering (401009F)	
Tuesday 20/10/2020	**ELECTIVE-IV** Construction Management (401010A)	**ELECTIVE-IV** Construction Management (401010A)
	ELECTIVE-IV Advanced Transportation Engineering (401010B)	**ELECTIVE-IV** Advanced Transportation Engineering (401010B)
	ELECTIVE-IV Advanced foundation Engineering. (401010C)	**ELECTIVE-IV** Statistical Analysis And Computational Methods In Civil Engineering (401010C)
	ELECTIVE-IV Coastal Engineering (401010D)	**OPEN ELECTIVE** Plumbing Engineering (401010DA)

Tuesday 20/10/2020	**OPEN ELECTIVE** Plumbing Engineering (401010EA)	**OPEN ELECTIVE** Green Building Technology (401010DB)
	OPEN ELECTIVE Green Building Technology (401010EB)	**OPEN ELECTIVE** Ferrocement Technology (401010DC)
	OPEN ELECTIVE Ferrocement Technology (401010EC)	**OPEN ELECTIVE** Sub Sea Engineering (401010DD)
	OPEN ELECTIVE Sub sea Engineering (401010ED)	**OPEN ELECTIVE** Wave Mechanics (401010DE)
	OPEN ELECTIVE Geoinformatics (401010EE)	**OPEN ELECTIVE** Repairs and Retrofitting of Concrete Structure (401010DF)

COMPUTER

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	High Performance Computing (410241)	Design & Analysis Of Algorithms (410441)
Thursday 15/10/2020	Artificial Intelligence & Robotics (410242)	Principles Of Modern Compiler Design (410442)
Sunday 18/10/2020	Data Analysis (410243)	Smart System Design And Applications (410443)
Tuesday 20/10/2020	**ELECTIVE-I** Digital Signal Processing (410244A)	**ELECTIVE-I** Image Processing (410444A)
	ELECTIVE-I Software Architecture & Design (410244B)	**ELECTIVE-I** Computer Network Design And Modeling (410444B)
	ELECTIVE-I Pervasive & Ubiquitous Computing (410244C)	**ELECTIVE-I** Advanced Computer Programming (410444C)
	ELECTIVE-I Data Mining & Warehousing (410244D)	**ELECTIVE-I** Data Mining Techniques And Applications (410444D)
Thursday 22/10/2020	**ELECTIVE-II** Distributed Systems (410245A)	**ELECTIVE-II** Problem Solving With Gamification (410445A)
	ELECTIVE-II Software Testing & Quality Assurance (410245B)	**ELECTIVE-II** Pervasive Computing (410445B)
	ELECTIVE-II Operation Research (410245C)	**ELECTIVE-II** Embedded Security (410445C)
	ELECTIVE-II Mobile Communication (410245D)	**ELECTIVE-II** Multidisciplinary NLP (410445D)

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Machine Learning (410250)	Software Design Methodology And Testing (410449)
Thursday 15/10/2020	Information and Cyber Security (410251)	High Performance Computing (410450)
Sunday 18/10/2020	**ELECTIVE-III** Advanced Digital Signal Processing (410252A)	**ELECTIVE-III** Mobile Computing (410451A)
	ELECTIVE-III Compilers (410252B)	**ELECTIVE-III** Web Technology (410451B)
	ELECTIVE-III Embedded and Real Time Operating Systems (410252C)	**ELECTIVE-III** Cloud Computing (410451C)
	ELECTIVE-III Soft Computing and Optimization Algorithms (410252D)	**ELECTIVE-III** Cyber Security (410451D)
Tuesday 20/10/2020	**ELECTIVE-IV** Software Defined Networks (410253A)	**ELECTIVE-IV** Business Analytic And Intelligence (410452A)
	ELECTIVE-IV Human Computer Interface (410253B)	**ELECTIVE-IV** Operations Research For Algorithms In Scientific Applications (410452B)
	ELECTIVE-IV Cloud Computing (410253C)	**ELECTIVE-IV** Mobile Applications (410452C)
	ELECTIVE-IV Business Intelligence (410253DA)	**OPEN ELECTIVE** *Unified Communications and Contact center Applications (410452DA)
	ELECTIVE-IV Enterprise Resource Planning (410253DB)	**OPEN ELECTIVE** Programming Paradigms for Complex Problems –case studies in Python (410452DB)
	OPEN ELECTIVE Big Data & Data Analytics (410253DC)	**OPEN ELECTIVE** Concurrency on Open Source Systems (410452DC)
		OPEN ELECTIVE Fundamentals of Software Defined Network (410452DD)

Tuesday 20/10/2020		**OPEN ELECTIVE** Big Data and Data Analytics (410452DE)

NOTE:-

Common With Information Technology.

ELECTRICAL

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	Power System Operation & Control (403141)	Power System Operation And Control (403141)
Thursday 15/10/2020	PLC & SCADA Applications (403142)	PLC And SCADA Applications (403142)
Sunday 18/10/2020	Control System-II (403145)	Control System - II (403145)
Tuesday 20/10/2020	**ELECTIVE-I** Fundamentals of Microcontroller & its Applications (403143A)	**ELECTIVE-I** Special Purpose Machines (403143A)
	ELECTIVE-I Power Quality (403143B)	**ELECTIVE-I** Power Quality (403143B)
	ELECTIVE-I Renewable Energy System (403143C)	**ELECTIVE-I** Renewable Energy Systems (403143C)
	ELECTIVE-I Digital Signal Processing (403143D)	**ELECTIVE-I** Digital Signal Processing (403143D)
Thursday 22/10/2020	**ELECTIVE-II** Restructuring & De Regulation (403144A)	**ELECTIVE-II** Restructuring And Deregulation (403144A)
	ELECTIVE-II Electromagnetic Field (403144B)	**ELECTIVE-II** Electromagnetic Fields (403144B)
	ELECTIVE-II EHV AC Transmission (403144C)	**ELECTIVE-II** EHV AC Transmission (403144C)
	ELECTIVE-II Electric & Hybrid Vehicles (403144D)	**ELECTIVE-II** Introduction To Electrical Transportation Systems (403144D)
	ELECTIVE-II Special Purpose Machines (403144E)	

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Switchgear and Protection (403147)	Switchgear And Protection (403147)
Thursday 15/10/2020	Power Electronic Controlled Drives (403148)	Power Electronic Controlled Drives (403148)
Sunday 18/10/2020	**ELECTIVE-III** High Voltage Engineering (403149A)	**ELECTIVE-III** High Voltage Engineering (403149A)
	ELECTIVE-III HVDC and FACTS (403149B)	**ELECTIVE-III** HVDC And FACTS (403149B)
	ELECTIVE-III Digital Control System (403149C)	**ELECTIVE-III** Digital Control System (403149C)
	ELECTIVE-III Intelligent Systems and Applications in Electrical Engineering (403149D)	**ELECTIVE-III** Intelligent Systems And Its Applications In Electrical Engineering (403149D)
	ELECTIVE-III Analog Electronics and Sensing Technology [Open Elective] (403149E)	
Tuesday 20/10/2020	**ELECTIVE-IV** Smart Grid (403150A)	**ELECTIVE-IV** Smart Grid (403150A)
	ELECTIVE-IV Robotics and Automation (403150B)	**ELECTIVE-IV** Robotics And Automation (403150B)
	ELECTIVE-IV Illumination Engineering (403150C)	**ELECTIVE-IV** Illumination Engineering (403150C)
	ELECTIVE-IV VLSI Design[Open Elective] (403150D)	**OPEN ELECTIVE** VLSI Design (403150D)

ELECTRONICS

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	VLSI Design (404201)	VLSI Design (404201)
Thursday 15/10/2020	Advanced Power Electronics (404202)	Electronic System Design (404202)
Sunday 18/10/2020	Electronics System Design (404203)	Advance Power Electronics (404203)
Tuesday 20/10/2020	ELECTIVE-I Digital Image & Video Processing (404204A)	ELECTIVE-I Image Processing And Machine Vision (404204A)
	ELECTIVE-I Audio & Speech Processing (404204B)	ELECTIVE-I Embedded Systems And RTOS (404204B)
	ELECTIVE-I Embedded Systems & RTOS (404204C)	ELECTIVE-I Biomedical Instrumentation (404204C)
	ELECTIVE-I Internet of Things (404204D)	ELECTIVE-I Advance Measurement Systems (404204D)
	ELECTIVE-I Software Defined Radio (404204E)	
Thursday 22/10/2020	ELECTIVE-II Mobile Communication (404205A)	ELECTIVE-II DSP Processors (404205A)
	ELECTIVE-II Bio-Medical Electronics (404205B)	ELECTIVE-II Robotics And Automation (404205B)
	ELECTIVE-II Optimization Techniques (404205C)	ELECTIVE-II Electronics In Agriculture (404205C)
	ELECTIVE-II Computer Modeling & Simulation (404205D)	ELECTIVE-II Mobile Communication (404205D)
	ELECTIVE-II Digital Signal Processor TMS320C67X (404205E)	

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Computer Networks & Security (404209)	Computer Network (404209)
Thursday 15/10/2020	Process Instrumentation (404210)	Process Automation (404210)
Sunday 18/10/2020	**ELECTIVE-III** Automotive Electronics (404211A)	**ELECTIVE-III** Speech & Audio Signal Processing (404211A)
	ELECTIVE-III Artificial Intelligence and Machine Learning (404211B)	**ELECTIVE-III** Audio And Video Engineering (404211B)
	ELECTIVE-III Optical and Microwave Communication (404211C)	**ELECTIVE-III** Optical And Microwave Communication (404211C)
	ELECTIVE-III Audio Video Engineering (404211D)	**ELECTIVE-III** Soft Computing (404211D)
	ELECTIVE-III Testing and verification for SoC Design (404211E)	
Tuesday 20/10/2020	**OPEN ELECTIVE** * Advanced Automotive Electronics (404192DA)	**ELECTIVE-IV** Biomedical Signal Processing (404212A)
	OPEN ELECTIVE * Industrial Internet of Things (404192DB)	**ELECTIVE-IV** Nano Electronics & MEMS (404212B)
	OPEN ELECTIVE * Programmable System on Chip (404192DC)	**ELECTIVE-IV** System On Chip (404212C)
	OPEN ELECTIVE * Data Science & Analytics (404192DD)	**ELECTIVE-IV** Mechatronics (404212D)
	ELECTIVE-IV Robotics (404212A)	**OPEN ELECTIVE** * Advanced Automotive Electronics (404212EA)
	ELECTIVE-IV Wireless Sensor Networks (404212B)	**OPEN ELECTIVE** * Data Science and Analytics (404212EB)

	ELECTIVE-IV Renewable Energy Systems & DSM (404212C)	OPEN ELECTIVE * Industrial Internet of Things (404212EC)
Tuesday 20/10/2020		
	ELECTIVE-IV TM4C123GH6PM Microcontroller (404212D)	

NOTE:-

Common With E & TC.

ELECTRONICS & TELECOMMUNICATION

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	VLSI Design & Technology (404181)	VLSI Design & Technology (404181)
Thursday 15/10/2020	Computer Networks & Security (404182)	Computer Networks (404182)
Sunday 18/10/2020	Radiation & Microwave Techniques (404183)	Microwave Engineering (404183)
Tuesday 20/10/2020	ELECTIVE-I Digital Image video Processing (404184A)	ELECTIVE-I Digital Image Processing (408184A)
	ELECTIVE-I Industrial Drives & Control (404184B)	ELECTIVE-I Embedded Systems & RTOS (408184B)
	ELECTIVE-I Embedded System & RTOS (404184C)	ELECTIVE-I Software Defined Radio (408184C)
	ELECTIVE-I Internet of Things (404184D)	ELECTIVE-I Industrial Drives And Control (408184D)
Thursday 22/10/2020	ELECTIVE-II Wavelets (412185A)	ELECTIVE-II Multi Rate & Adaptive Signal Processing (412185A)
	ELECTIVE-II Electronics Product Design (412185B)	ELECTIVE-II Electronic Product Design (412185B)
	ELECTIVE-II Optimization Techniques (412185C)	ELECTIVE-II PLCs And Automation (412185C)
	ELECTIVE-II Artificial Intelligence (412185D)	ELECTIVE-II Artificial Intelligence (412185D)
	ELECTIVE-II Electronics in Agriculture (412185E)	

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Mobile Communication (404189)	Mobile Communication (404189)
Thursday 15/10/2020	Broadband Communication Systems (404190)	Broadband Communication Systems (404190)
Sunday 18/10/2020	**ELECTIVE-III** Machine Learning (404191A)	**ELECTIVE-III** Speech & Audio Signal Processing (404191A)
	ELECTIVE-III PLC s and Automation (404191B)	**ELECTIVE-III** RF Circuit Design (404191B)
	ELECTIVE-III Audio and Speech Processing (404191C)	**ELECTIVE-III** Audio Video Engineering (404191C)
	ELECTIVE-III Software Defined Radio (404191D)	**ELECTIVE-III** Soft Computing (404191D)
	ELECTIVE-III Audio Video Engineering (404191E)	
Tuesday 20/10/2020	**ELECTIVE-IV** Robotics (404192A)	**OPEN ELECTIVE** Advanced Automotive Electronics (404192EA)
	ELECTIVE-IV Biomedical Electronics (404192B)	**OPEN ELECTIVE** *Unified Communications and Contact center Applications (404192EB)
	ELECTIVE-IV Wireless Sensor Networks (404192C)	**OPEN ELECTIVE** @Business Analytic And Intelligence (404192EC)
	ELECTIVE-IV Renewable Energy Systems (404192D)	**OPEN ELECTIVE** Data Science and Analytics (404192ED)
	OPEN ELECTIVE Advanced Automotive Electronics (404192DA)	**OPEN ELECTIVE** Industrial Internet of Things (404192EE)
	OPEN ELECTIVE Industrial Internet of Things (404192DB)	**ELECTIVE-IV** Biomedical Signal Processing (404192A)

Tuesday 20/10/2020	**OPEN ELECTIVE** Programmable System on Chip (404192DC)	**ELECTIVE-IV Nano Electronics & MEMS (404192B)**
	OPEN ELECTIVE Data Science & Analytics (404192DD)	**ELECTIVE-IV** Detection & Estimation Theory (404192C)
		ELECTIVE-IV Wireless Networks (404192D)

NOTE:-

Common With Information Technology.

@ Common With Computer Engineering.

INFORMATION TECHNOLOGY

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	Information & Cyber Security (414453)	Information And Cyber Security (414453)
Thursday 15/10/2020	Machine Learning & Applications (414454)	Software Modeling And Design (414454)
Sunday 18/10/2020	Software Design & Modeling (414455)	Machine Learning (414455)
Tuesday 20/10/2020	ELECTIVE-I Wireless Communications (414456A)	ELECTIVE-I Soft Computing (414456A)
	ELECTIVE-I Natural Language Processing (414456B)	ELECTIVE-I Usability Engineering (414456B)
	ELECTIVE-I Usability Engineering (414456C)	ELECTIVE-I Modern Compiler (414456C)
	ELECTIVE-I Multicore & Concurrent Systems (414456D)	ELECTIVE-I Parallel Algorithms And Design (414456D)
	ELECTIVE-I Business Analytics & Intelligence (414456E)	ELECTIVE-I Cloud Computing (414456E)
Thursday 22/10/2020	ELECTIVE-II Software Defined Networks (414457A)	ELECTIVE-II Business Intelligence (414457A)
	ELECTIVE-II Soft Computing (414457B)	ELECTIVE-II Service Oriented Architecture (414457B)
	ELECTIVE-II Software Testing & Quality Assurance (414457C)	ELECTIVE-II E&M Governance (414457C)
	ELECTIVE-II Compiler Construction (414457D)	ELECTIVE-II Geo Informatics Systems (414457D)
	ELECTIVE-II Gamification (414457E)	ELECTIVE-II Natural Language Processing (414457E)

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Distributed Computing System (414462)	Distributed System (414461)
Thursday 15/10/2020	Ubiquitous Computing (414463)	Advanced Databases (414462)
Sunday 18/10/2020	**ELECTIVE-III** Internet of Things (IoT) (414464A)	**ELECTIVE-III** Mobile Computing (414463A)
	ELECTIVE-III Information storage and retrieval (414464B)	**ELECTIVE-III** Advanced Graphics And Animation (414463B)
	ELECTIVE-III Multimedia Techniques (414464C)	**ELECTIVE-III** Information Storage And Retrieval (414463C)
	ELECTIVE-III Internet and Web Programming (414464D)	**ELECTIVE-III** IT Enabled Services (414463D)
	ELECTIVE-III Computational Optimization (414464E)	**ELECTIVE-III** Advanced Computer Networks (414463E)
Tuesday 20/10/2020	**ELECTIVE-IV** Rural Technologies and Community Development (414465A)	**ELECTIVE-IV** Bio-Informatics (414464A)
	ELECTIVE-IV Parallel Computing (414465B)	**ELECTIVE-IV** Real Time And Embedded Systems (414464B)
	ELECTIVE-IV Computer Vision (414465C)	**ELECTIVE-IV** Green IT-Principles And Practices (414464C)
	ELECTIVE-IV Social Media Analytics (414465D)	**ELECTIVE-IV** Internet Of Things (414464D)
		OPEN ELECTIVE Unified Communications and Contact center Applications (414464E)

MECHANICAL

SEM-I

Day & Date	2015 Course Time-10.00 AM To 11.00 AM	2012 Course Time-10.00 AM To 11.00 AM
Tuesday 13/10/2020	@ Refrigeration and Air Conditioning (302049)	Refrigeration And Air Conditioning (402041)
	Hydraulics & Pneumatics (402041)	
Thursday 15/10/2020	CAD/CAM Automation (402042)	CAD/CAM Automation (402042)
Sunday 18/10/2020	Dynamics of Machinery (402043)	Dynamics Of Machinery (402043)
Tuesday 20/10/2020	**ELECTIVE-I** Finite Element Analysis (402044A)	**ELECTIVE-I** Energy Audit Management (402044A)
	ELECTIVE-I Computational Fluid Dynamics (402044B)	**ELECTIVE-I** Tribology (402044B)
	ELECTIVE-I Heating Ventilation & Air Conditioning (402044C)	**ELECTIVE-I** Reliability Engineering (402044C)
		ELECTIVE-I Machine Tool Design (402044D)
Thursday 22/10/2020	**ELECTIVE-II** Automobile Engineering (402045A)	**ELECTIVE-II** Gas Turbine Propulsion (402045A)
	ELECTIVE-II Operation Research (402045B)	**ELECTIVE-II** Product Design And Development (402045B)
	ELECTIVE-II Energy Audit & Management (402045C)	**ELECTIVE-II** Operation Research (402045C)
		ELECTIVE-II Advanced Manufacturing Processes (402045D)

SEM-II

Day & Date	2015 Course Time-01.00 PM To 2.00 PM	2012 Course Time-01.00 PM To 2.00 PM
Tuesday 13/10/2020	Energy Engineering (402047)	Power Plant Engineering (402047)
Thursday 15/10/2020	* Mechanical System Design (402048)	*Mechanical System Design (402048)
Sunday 18/10/2020	**ELECTIVE-III** Tribology (402049A)	**ELECTIVE-III** Refrigeration And Air Conditioning Equipment Design (402049A)
	ELECTIVE-III Industrial Engineering (402049B)	**ELECTIVE-III** Robotics (402049B)
	ELECTIVE-III Robotics (402049C)	**ELECTIVE-III** Industrial Engineering (402049C)
		ELECTIVE-III (OPEN ELECTIVE) Product Lifecycle Management (402049DA)
		ELECTIVE-III (OPEN ELECTIVE) Automobile Engineering (402049DB)
		ELECTIVE-III (OPEN ELECTIVE) Steam Engineering and Energy Conservations (402049DC)
Tuesday 20/10/2020	**ELECTIVE-IV** Advanced Manufacturing Processes (402050A)	**ELECTIVE-IV** Computational Fluid Dynamics (402050A)
	ELECTIVE-IV Solar & Wind Energy (402050B)	**ELECTIVE-IV** Finite Element Analysis (402050B)
	ELECTIVE-IV Product Design and Development (402050C)	**ELECTIVE-IV** Design Of Pumps Blowers And Compressors (402050C)

NOTE:-

Note :-

@ The Students who have not studied the subject Refrigeration & Air Conditioning in T.E. 2012 pattern and who got admitted in B.E. 2015 pattern.